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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTORS: James Agutter  
Dwayne R. Westenskow  
Noah Syroid  
Julio C. Bermudez  
Yinqi Zhang

ASSIGNEE: University of Utah

SERIAL NUMBER: n/a

DATE FILED: n/a

TITLE: METHOD AND APPARATUS FOR MONITORING DYNAMIC  
CARDIOVASCULAR FUNCTION USING N-DIMENSIONAL  
REPRESENTATIONS OF CRITICAL FUNCTIONS

ATTORNEY DOCKET: 4315 P

Assistant Commissioner for Patents  
Box PATENT APPLICATION  
Washington, DC 20231

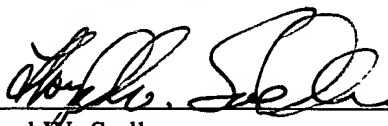
**COVER LETTER**

Honorable Assistant Commissioner:

Enclosed herewith please find the following documents comprising a United States patent application: (1) specification, claims and drawings, (2) fee calculation sheet, (3) fee, (4) declaration of inventor, (5) statements of small entity status, (6) information disclosure statement, and (7) return receipt postcard.

Because the inventors are presently unavailable, the declarations, including the small entity status, are submitted unsigned. Applicant intends to file signed declarations including the declarations claiming small entity status within the permitted time after receiving a Notice of Missing Parts.

Respectfully submitted this 10<sup>th</sup> day of October, 2000.

  
Lloyd W. Sadler  
Reg. No. 40,154  
MCCARTHY & SADLER, LC

jc932 U.S. PTO  
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**Honorable Assistant Commissioner:**

Basic Filing Fee (small entity) . . . . .	\$ 355.00
Independent claims in excess of three . . . . .	\$ 0.00
( 0 x 40.00 each)	
Claims in excess of twenty . . . . .	\$ 0.00
( 0 x 9.00)	
Recordation of Assignment . . . . .	\$ 0.00
Recordation of Assignment . . . . .	\$ 0.00
<b>TOTAL . . . . .</b>	<b>\$ 355.00</b>

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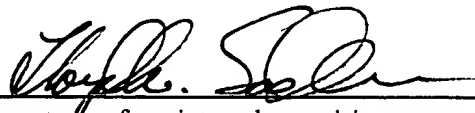
ATTORNEY DOCKET: 4315 P

Assistant Commissioner for Patents  
Box PATENT APPLICATION  
Washington, DC 20231

**CERTIFICATE OF MAILING**

Honorable Assistant Commissioner:

I hereby certify that the attached paper of fee (Patent Application) is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee," Express Mail Mailing Label Number EK91694071705, (under 37 C.F.R. § 1.10) on this 10<sup>th</sup> day of October, 2000 with sufficient postage and in an envelope addressed to the Assistant Commissioner for Patents, Box PATENT APPLICATION, Washington, DC 20231.

  
Signature of registered practitioner or other person  
having a reasonable basis to expect mailing to occur  
on the date of deposit shown pursuant to 37 C.F.R.  
§ 1.8(a) or person actually making deposit pursuant  
to 37 C.F.R. § 1.10(b).

Lloyd W. Sadler, Reg. No. 40,154  
Name of person whose signature is given above